

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 2002-059571

(43) Date of publication of application : 26.02.2002

(51) Int.CI.

B41J 2/205
B41J 2/21
G06T 5/00
H04N 1/23
H04N 1/60
H04N 1/407
H04N 1/46

(21) Application number : 2000-
250154

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(22) Date of filing : 21.08.2000

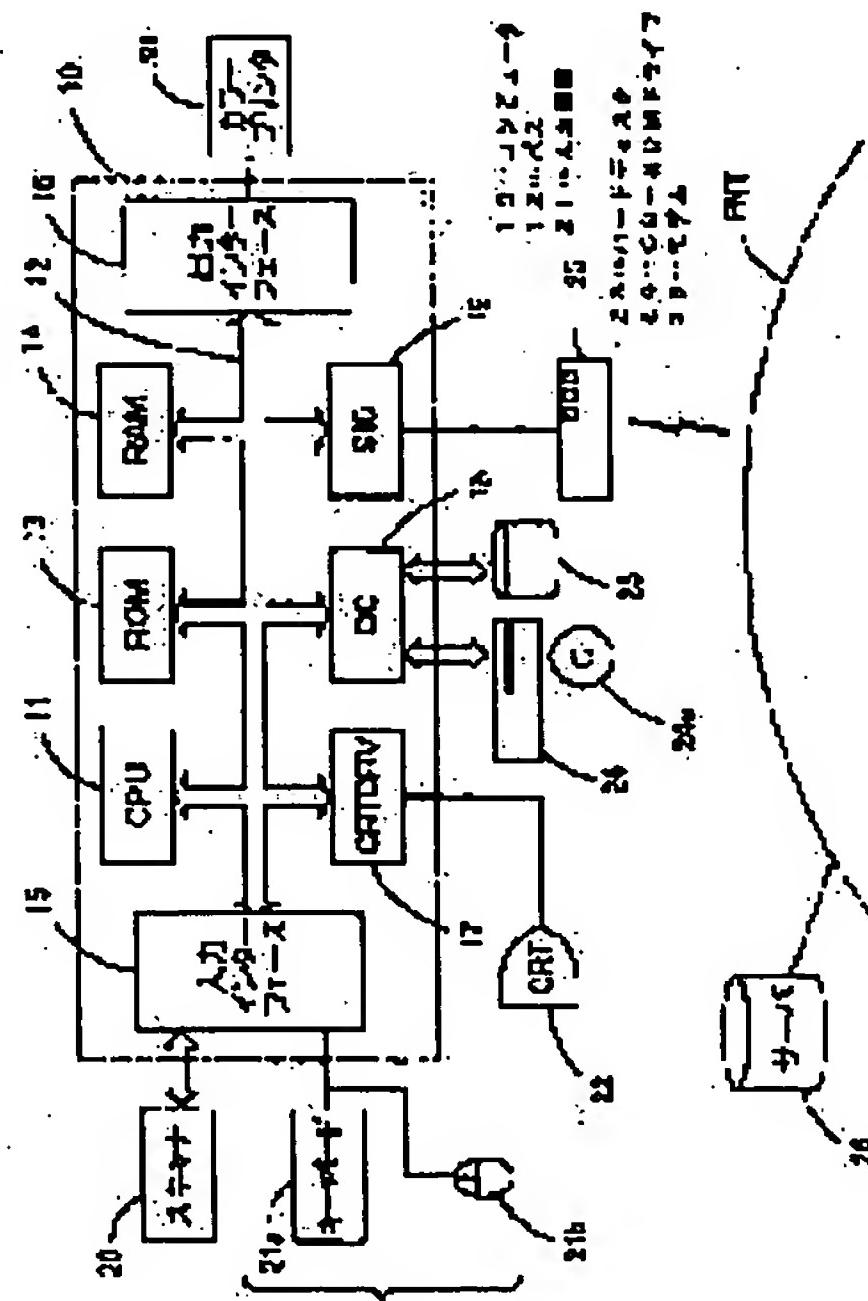
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**(54) MEDIUM WITH GRAY SCALE COLOR-SORTING PROCESS PROGRAM
RECORDED, APPARATUS AND METHOD FOR PROCESSING TO SORT GRAY
SCALE COLOR**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a medium in which a gray scale color-sorting process program enabling predetermined colors to be sorted to appropriate gray scale colors is recorded, an apparatus and a method for processing to sort gray scale colors.

SOLUTION: In sorting (C and M) of a pixel X to gray scale colors (C1, M1, Lc1 and Lm1), a coordinate value in a CMY color space of the pixel X is grasped from a positional relation between areas S1-S4 of rectangles divided from a predetermined plane S including the pixel X and predetermined gray scale color-sorting characteristics DR1-DR4. Sorting to optimum gray scale colors is realized for each pixel by appropriately changing the sorting on the basis of these areas S1-S4 and gray scale color-sorting characteristics DR1-DR4.



LEGAL STATUS

[Date of request for examination] 29.07.2004

[Date of sending the examiner's decision]

[of rejection]

[Kind of final disposal of application
other than the examiner's decision of
rejection or application converted
registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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